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361 CACGCGTGGTGTGACTTGCAGCACTGAGAGCGACTGGCGCGCATCTCGCGAG 420
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421 gagcagaacgcgagctga 438
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421 GAGCAGAAACGCCGCGTGA 438

RESULT 2
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VERSION D50051.1 GI:1772323
KEYWORDS ssga.
SOURCE Streptomyces griseus (strain:B2682) DNA.
ORGANISM Streptomyces griseus
Bacteria; Firmicutes; Actinobacteria; Actinomycetaceae; Streptomyces.
REFERENCE 1 (sites)
AUTHORS Kawamoto,S. and Ensign,J.C.
TITLE Cloning and characterization of a gene involved in regulation of sporulation and cell division of Streptomyces griseus
JOURNAL Actinomycetol. 9, 136-151 (1995)
REFERENCE 2 (sites)
AUTHORS Kawamoto,S. and Ensign,J.C.
TITLE Isolation of mutants of Streptomyces griseus that sporulate in

JOURNAL nutrient rich media
REFERENCE Actinomycetol. 9, 124-135 (1995)
AUTHORS 3 (sites)
TITLE Kawamoto,S., Watanabe,H., Hesketh,A., Ensign,J.C. and Ochi,K.
JOURNAL Expression analysis of the ssga gene product, associated with
REFERENCE sporulation and cell division in Streptomyces griseus
PUBMED Microbiology (Reading, England) 143 (Pt 4), 1077-1086 (1997)
9141673
REFERENCE 4 (bases 1 to 1513)
AUTHORS Shinichi,K. and Ensign,J.C.
TITLE Cloning and characterization of a gene involved in sporulation and cell division of Streptomyces griseus
JOURNAL Unpublished (1995)
5 (bases 1 to 1513)
AUTHORS Shinichi,K.
TITLE Direct Submission
JOURNAL Submitteq'(06-APR-1995) Kawamoto Shinichi, National Food Research
REFERENCE Institute, Biomolecular Transfunction Laboratory; Kannondai 2-1-2,
5 (bases 1 to 1513) Teukuba, Ibaraki 305, Japan (Tel:0298-38-8124, Fax:0298-38-7996)

FEATURES
source location/Qualifiers
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ORIGIN

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725 CACGCGTGGTGTGACTTGCAGCACTGAGAGCGACTGGCGCGCATCTCGCGAG 784

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OM protein - protein search, using sw model

Run on: July 18, 2002, 14:15:11 ; Search time 140.15 Seconds
(without alignments)
166.638 Million cell updates/sec

Title: US-09-749-185-3

Sequence score: 1 MSFVSEELSPRIPELVRE.....FDGNLEDAIGRIAEQNG 135

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 562222 seqs, 172994929 residues

Total number of hits satisfying chosen parameters: 562222

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- 1: SPREMBL_19:**
- 2: sp_archaea:**
- 3: sp_bacteria:**
- 4: sp_fungi:**
- 5: sp_human:**
- 6: sp_invertebrate:**
- 7: sp_mammal:**
- 8: sp_mmc:**
- 9: sp_organelle:**
- 10: sp_phage:**
- 11: sp_plant:**
- 12: sp_rodent:**
- 13: sp_virus:**
- 14: sp_vertebrate:**
- 15: sp_unclassified:**
- 16: sp_virus:**
- 17: sp_bacteriophage:**
- 18: sp_archaeal:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	704	100.0	136	2	P95753 streptomyc
2	606	86.1	145	2	P95753 streptomyc
3	556	79.0	135	2	P95753 streptomyc
4	546	77.6	136	2	P95753 streptomyc
5	464	65.9	135	2	P95753 streptomyc
6	249	35.4	135	2	P95753 streptomyc
7	219	31.1	142	2	P95753 streptomyc
8	190	27.0	138	2	P95753 streptomyc
9	150	21.3	156	2	P95753 streptomyc
10	140	19.9	142	2	P95753 streptomyc
11	99.5	12.0	142	2	P95753 streptomyc
12	84.5	11.9	142	2	P95753 streptomyc
13	84	11.9	142	2	P95753 streptomyc
14	83.5	11.9	142	2	P95753 streptomyc
15	81	11.5	142	2	P95753 streptomyc
16	81	11.5	142	2	P95753 streptomyc

17	81	11.5	549	13	Q9W639	Q9W639 xenopus lae
18	79	11.2	553	13	Q9I9P4	Q9I9P4 brachydanio
19	79	11.2	544	13	Q9OY99	Q9OY99 cyprinus ca
20	79	11.2	547	13	Q9OYAL	Q9OYAL cyprinus ca
21	78	11.1	547	13	Q9OYAO	Q9OYAO cyprinus ca
22	77.5	11.0	700	2	Q34003	Q34003 rhodobacter
23	77.5	11.0	913	2	Q54182	Q54182 streptomyc
24	77	10.9	544	13	Q9OY98	Q9OY98 cyprinus ca
25	77	10.9	819	10	Q9SNM4	Q9SNM4 arabidopsis
26	76.5	10.9	260	11	Q9ERN8	Q9ERN8 mus musculi
27	76	10.8	762	2	Q9RL29	Q9RL29 streptomyc
28	75.5	10.7	902	16	Q9I742	Q9I742 pseudomonas
29	75	10.7	381	2	Q9KXV7	Q9KXV7 streptomyc
30	75	10.7	644	2	Q9RJK2	Q9RJK2 streptomyc
31	75	10.7	760	16	Q9I6K5	Q9I6K5 pseudomonas
32	75	10.7	1960	5	Q9NDY5	Q9NDY5 leishmania
33	74	10.5	924	10	Q9W9L8	Q9W9L8 arabidopsis
34	74	10.5	981	11	Q9NLC9	Q9NLC9 mus musculi
35	74	10.5	1235	4	Q95428	Q95428 homo sapien
36	73.5	10.4	346	16	Q34788	Q34788 bacillus su
37	73.5	10.4	418	11	Q9ER10	Q9ER10 microtus br
38	73.5	10.4	538	16	Q9R041	Q9R041 delinococcus
39	73.5	10.4	1191	12	Q9E6P0	Q9E6P0 turkey herp
40	73	10.4	374	16	Q9ZY75	Q9ZY75 rhizobium m
41	73	10.4	589	10	Q9C621	Q9C621 arabidopsis
42	73	10.4	674	5	Q9VLJ1	Q9VLJ1 drosophila
43	73	10.4	2034	2	Q93XK7	Q93XK7 streptomyc
44	72.5	10.3	512	17	Q26636	Q26636 methanother
45	72.5	10.3	1096	10	Q04954	Q04954 arabidopsis

ALIGNMENTS

RESULT 1	P95753	PRELIMINARY;	PRT;	136 AA.
AC	P95753			
DT	01-MAY-1997 (TREMBL)	03, Created		
DT	01-MAY-1997 (TREMBL)	03, Last sequence update		
DT	01-DEC-2001 (TREMBL)	19, Last annotation update		
DE	SSGA.			
OS	Streptomyces griseus.			
OC	Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;			
OC	Actinomycetales; Streptomycinae; Streptomycetaceae; Streptomyces.			
OX	NCBI_TaxID=1911;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-B2682;			
RA	Shinichi K., Ensign J.C.			
RT	"Cloning and characterization of a gene involved in sporulation and cell division of Streptomyces griseus."			
RL	Submitted (APR-1995) to the EMBL/GenBank/DBJ databases.			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-B2682;			
RA	Kawamoto S., Ensign J.C.			
RT	"Isolation of mutants of Streptomyces griseus that sporulate in nutrient rich media."			
RL	Nippon Hosenkin Gakkaishi 9:124-135(1995).			
RN	[3]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-B2682;			
RA	Kawamoto S., Ensign J.C.			
RT	"Cloning and characterization of a gene involved in regulation of sporulation and cell division of Streptomyces griseus."			
RL	Nippon Hosenkin Gakkaishi 9:136-151(1995).			
RN	[4]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-B2682;			
RA	MEDLINE-97285526; PubMed-9141673;			
RX	Kawamoto S., Watanabe H., Hesketh A., Ensign J.C., Ochi K.			
RA	"Expression analysis of a ssgA gene product associated with			
RT				

RT sporulation and cell division in *Streptomyces griseus*.";
 RL Microbiology 143:1077-1086(1997).
 DR EMBL; D50051; BAA2158.1; -
 SQ SEQUENCE 136 AA; 14783 MW; 66A28A7823AD7C8B CRC64;

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 OY 61 VHGTEPEGLGDVHRILOVGADRALFRAGTAPLVAFLDRTDKLVPLOGEHTLGDPDGNTL 120
 DB 62 VHGTEPEGLGDVHRILOVGADRALFRAGTAPLVAFLDRTDKLVPLOGEHTLGDPDGNTL 121
 OY 121 EDALGRILAEQONAG 135
 DB 122 EDALGRILAEQONAG 136

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AC 09F9B5; 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)
 DE SSGA.
 GN SSGA.
 OS Streptoverficillium netropsis (Streptoverficillium flavopersicus).
 OC Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
 OC Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
 OX NCBI_TaxID=53404;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA van Wezel G.P., Rousseau C., Kraal B.;
 RT "Cloning and sequencing of the Streptomyces netropsis ssrA gene.";
 RL Submitted (Oct-1999) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AF195772; AAC28483.1; -
 SQ SEQUENCE 145 AA; 15838 MW; 92AC0F30DF3D2620 CRC64;

Query Match 86.1%; Score 606; DB 2; Length 145;
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 DB 71 VHGTEPEGLGDVHRILOVGADRALFRAGTAPLVAFLDRTDKLVPLOGEHTLGDPDGNTL 130
 OY 121 EDALGRILAEQONAG 135
 DB 131 EDALGRILAEQONAG 145

RESULT 3
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AC 09F9B7; 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-MAR-2001 (TREMBlrel. 16, Last annotation update)
 DE SSGA.
 GN SSGA.
 OS Streptomyces goldenensis.
 OC Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;

OC Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
 OX NCBI_TaxID=121022;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA van Wezel G.P., Rousseau C., Kraal B.;
 RT "Cloning and sequencing of the Streptomyces goldenensis ssrA gene.";
 RL Submitted (Oct-1999) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AF195770; AAC28481.1; -
 SQ SEQUENCE 135 AA; 14843 MW; 3206CC8BDE4ED6 CRC64;

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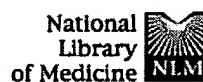
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 DB 1 MSFLVSEELSPRIPELVREVGDPYAIRMTFHLPGDAPYTWAFGRLLDGLNSPSGDD 60
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 DB 61 VHGTEPEGLGDVHRILOVGADRALFRAGTAPLVAFLDRTDKLVPLOGEHTLGDPDGNTL 120
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AC 09X902; 01-NOV-1999 (TREMBlrel. 12, Created)
 DT 01-NOV-1999 (TREMBlrel. 12, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE PUTATIVE REGULATOR.
 GN SCQ11.09.
 OS Streptomyces coelicolor.
 OC Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
 OC Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
 OX NCBI_TaxID=1902;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Seeger K., Harris D.;
 RT Submitted (Jul-1999) to the EMBL/Genbank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN-A3(2);
 RA James K.D., Parkhill J., Barrell B.G., Randal M.A.;
 RL Submitted (Jul-1999) to the EMBL/Genbank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN-A3(2);
 RX MEDLINE-97000351; PubMed-8843436;
 RA Kinsahl H., Hopwood D.A.;
 RT "A set of ordered cosmid and a detailed genetic and physical map for the 8 Mb Streptomyces coelicolor A3(2) chromosome.";
 RL Mol. Microbiol. 21:77-96(1996).
 DR EMBL; AL096823; CAB46964.1; -
 SQ SEQUENCE 136 AA; 14920 MW; 4B67C1F1E0BEC88 CRC64;

Query Match 77.6%; Score 546; DB 2; Length 136;
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PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books	
Search	PubMed	▼	for					Go	Clear
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Display		Abstract	▼	Show: 20	▼	Sort	▼	Send to	Text

☐ 1: Microbiology. 1997 Apr;143 (Pt 4):1077-86.

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Expression analysis of the ssgA gene product, associated with sporulation and cell division in *Streptomyces griseus*.

Kawamoto S, Watanabe H, Hesketh A, Ensign JC, Ochi K.

PubMed
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National Food Research Institute, Ibaraki, Japan. taishi@ss.nfri.affrc.go.jp

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Resources

The ssgA gene of *Streptomyces griseus* B2682, when present in high copy number, results in both suppression of sporulation and fragmented growth of mycelia. Western analysis with polyclonal antibodies against the gene product (SsgA) revealed a close correlation between SsgA accumulation and the onset of sporulation in wild-type cells. The protein was only detected in the cytoplasm. Certain developmental mutants of *S. griseus* (afs, reIC and brgA) which are defective in aerial mycelium formation in solid culture and submerged spore formation in liquid culture failed to accumulate SsgA. The SsgA protein appeared shortly (1 h) after nutritional shift-down of strain B2682 cells. afs mutant cells sporulated and expressed SsgA only when A-factor was present both before and after nutritional shift-down. Introduction of the ssgA gene in a low-copy-number vector into strain B2682 resulted in fivefold overexpression of SsgA, and was accompanied by fragmented growth of mycelia and suppression of submerged spore formation (in liquid culture) and aerial mycelium formation (in solid culture). Streptomycin production was not inhibited. In a control experiment, a nonfunctional ssgA gene possessing a frameshift mutation near its N-terminus had no effect on either growth or sporulation. It is proposed that the ssgA gene product plays a role in promoting the developmental process of *S. griseus*.

PMID: 9141673 [PubMed - indexed for MEDLINE]

Display	Abstract	▼	Show: 20	▼	Sort	▼	Send to	Text	▼
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